Family Argentinidal

Body elongate, abdomen rounded. houth terminal, small or large. maxillary forms lateral sidge of upper faw, with supplemental bone. Premaxillaries not protractile. Teeth various, sharp fromted. Iterygoids toothed, ho barbels. Gill membranes separate from isthmus. Gills 4, slit after fourth. Branchiostegals 5 to 10. Stomach blind sac, with few or no appendages. Aur versel single, large, Dva large, fall into abdeminal cavity before exclusion. Leales moderate or small, usually cycloid. Head nabed. Lateral line present. ho photophores. Dorsal short, nearly median. Midipose fin always present. Kinal moderate.

Candal forbed. Pectoral low, Ventral moderate, nearly median. Small marine fisher, many ascending streams in the Afraining season. They are reduced salmondida smaller and weaker than trout, from which they differ otherwise largely in the Istanach. most are excellent food fisher. Included here are only the deep water forms belonging to the genur Bathylagus.

Genus Bathylagus Günther Bathylagus Günther, ann. Mag. hat. Hist., London, ser. 5, vol. 2, 1878, 7. 248. Type Bathylagus antaretieus Günther, designated by Jordan, Enera of Fisher, pt. 3, 1919, p. 395. Body obling, compressed. Head short, Teamphessed, bones Then and membranaceoux. Eye large. mouth narrow, transverse, unterior. Upper teeth very feeble on rudementary, Hower very small, on faw edges forming fine serrature. Levier of minte teeth everoner and along each falation. Gitt opening Inarrow, begins offwarte perto la tour pand extends across

esthmus. Bill membranes united,

THE ACADEMY OF NATURAL SCIENCES
OF PHILADELPHIA

JAMES A. G. REHN SECRETARY WHO WILL CRESCAT SCIENTIA OR THE ADRIVE OR PORTED 1812 NO OR PORTED 1812 NO OR PORTED 1812

LOGAN SQUARE
PHILADELPHIA, PA.

free from isthmus. Gill rakers "
lanceolate, rather long. Gills.
small. Pseudobranchiae well developed. Heales moderate, thin, deciduous. Porsal small, median. Adepose fin present. Anal moderate or long. Candal forhed. Faired fins well developed, ventral opposite dornal.

Analysis of species a. Head 4 to 5. b. Corsal origin nearer snout tip than caudall base. c. Anal 13, depth 41/4. atlantieus. c. 2 Anal 16 to 25; depth 5 to 7/3. d'Eye 23/5 in head; head 51/4 to 51/3.
microcephalus. d. Eye 2 to 2 /2 (rarely 2 3/5); head 4 to 4 3/3. e. Anal origin 2 3/3 to 3/5 times as distant from snout end as from caudal base; anal fin base 4 1/2 to nearly 6 in fish. f. Depth 6 to 7/3; Anal 18 to 21. 9. Depth 6 to 6 14; head 4 18 to 14 1/3; interocular 2 3/4 to 3; dornal

origin neaver adepose fin than snout end. glacialis. gir Depth 7 to 7/3; head 41/4 to 43/5. Tinterbeular 4 or more in head; dorsal origin equidistant between mout end and adipose fin. gracilis. f. Depth 5 to 5 3/4; Anal usually 19 to 25. h. Head 4/3 to 4 1/5, eye 2/5-to 2/2, equals or less than postorbital. and 22 to 25, base length 4/2 to 5 15 in Lish. antarctions. h." Head 4 b to 4/3, eye little over 2, greater than postorbital; anal 19, base length 5 1/5 to 5 1/3 in fish. benedicti. Linal 19 (16). Lacificus. Linal 19 (16). Jacificus. itistant from anout and our courtak dane, And buril 6 1/4 to 6 13 in fish. euroyfra.

b. Norsal origin nearer kandal base than snout end. i. Dorsal 12; Anal 13; orcipital region normal. J. Eye 2/2 to 2/4 in head argyrogaster. f. Eye 3 to 3 1/3 in head. nigrigenys. i. "lorsal 8; Anal 24; occipital region swollen, with median beel milleri. -a. Head 3; lorsal 9, origin neaver candal base than snoutt tip, longiceps.

. Bathylagus atlanticus Günther Bathylagus atlanticus Günther, Cum. mag. hat. Hist., Lendon, ser. 5, vol. 2, 1878, p. 248. Nouth attantie, 2040 fathours; Rep. Voy. Challenger, vol. 22, 1887, p. 219 (type) !- ? Holt and Byrne, Olep. agric. - Goode and Bean, Oceanie Ichth., 1895. p. 54 (compiled). horman, Discovery Rep., vol. 2, 1930, p. 274 (type; ? off south west Ireland; N.50°57' W. 11°38', 700. Lathoms.

. Bathylagus atlanticus Günther Bathylagus atlanticus Günther, Cum. Mag. hat. Hist., Lendon, ser. 5, vol. 2, 1878, p. 248. Nouth attantee, 2040 fathours; Rep. Voy. Challenger, vol. 22, 1887, p. 219 (type)!-! Holt and Byrne, Clep. lignie. I reland Fisher. Hei. Investig., ho. 2, 1905, p.6, pl.1, figz. 3-4 (County mayo, western Ireland). - horman, Discovery Rep., vol. 2, 1930, p. 274 (type; ? off south west Ireland; N.50°57' W. 11°38', 700 fathoms.

(Copy here Korman js. 274)

89919 U.S.N.M. N.33°50'W.63°55',

huseum of Comparitive Zoology. Length 39 mm. Bathylagus microcephalus horman,

Bathylagus microcephalus horman,

Cliscovery Rep., vol. 2, 1930, p. 274, fig. 5

(outline). S. 33°50' to 34°13' F. 16°4' to 15°49',

859 to 950 meters; S. 46°56' W. 46°3', 1050 to

1350 meters.

48919 U.S.N.M. N. 32°44' W. 119°32'.
In 776 fathous.
Celbatross Station 3627, Cepril 13, 1896.
Length 173? mm. Type of Bathylagus
milleri.

Bathylagus gracilis Linnberg Bathylagus gracilis Limberg, Wiss. Ergebn. Schwed. Siidpolar-Exped., vol. 6, ho. 6, 1908, p. 68. S. 63°24'W. 45°40', 2800 meters; 5.49°56'W.49°56', 2700 meters. - horman, Discovery Rep., vol. 2, 1930, p. 276 (S. 41° 43° 20" W. 42° 20' 40", 2000 meters; S.39°50'30" W.36°23', 1500 meters; S.53°25' W. 35°15', 1025 to 1275 meters; S. 54°51'24" W. 31°20'/2", 750 to 1000 me ters; S. 54°19'30" W. 30° 31'30", 780 to 1000 meters.).

Bathylagus antarcticus Timther Bathylagus antarcticus Ginther, ann. mag. hat. Hist., London, ser. 5, vol. 2, 1878, p. 248. Untarctie, 1950 fathans; Rep. Voy. Challenger, vol. 22, 1887, p. 220 (type). - Goode and Bean, Oceanic Ichth., 1895, 4.55 / reference / Bonnand Minnel Houth - Braner, Deutsch. Tiefsee Exped. Valdivia, vol. 15, Tiefsee-Fischer, 1906, p. 12 (not fig; S. 55° 57'2" F. 16° 14'9", 2000 meters; S. 59° 16'3" F. 40°13'7", 5450 meters; S.62°26'6" F.53°21'6", 4953 meters, 1500; S. 37°31'2" F. 17°1'6, between Cape Colony and Bouvet Island). 49', 850 to 950 meters, 5.53°25' W.35°15', 1025 To 10 75 meters, type).

Bathylagus antarcticus Günther Bathylagus antarcticus Ginther, ann. mag. hat. Hist., London, ser. 5, vol. 2, 1878, p. 248. Lintarctie, 1950 fathans; Rep. Voy. Challenger, vol. 22, 1887, p. 220 (type). - Goode and Bean, Oceanie Ichth., 1895, 4.55 (reference) V_Barnard, Minn. Youth. efrican hus., vol. 21; pt. 1, June 1925, p. 129 (5.37°31' F. 17°1', 1000 fathans, south of agulhar Banks). _ horman, Wescovery Rep., vol. 2, 1930, p. 276 (S. 43° 20' W. 46° 2' 2000 meters, 5.33°50'to 34°13'£.16°4' to 150 49', 850 to 450 meters, 5.53°25' W.35°15', 1025 To 10 75 meters, type).

Bathylagus benedicti Goode and Bean Bothylagus benedicti Goode and Bean, Oceanic Ichth., 1895, p. 55, pl. 17, fig. 64. N. 39° 44'38" W. 71° 4', 1022 fathoms, N. 38° 59' W.70°7', 1344 fathoms; N.40°29' W.66° 4', 1769 fathoms. _ fordan and Evermann, Bull. U. V. hat. mus., ho. 47, pt. 1, 1896, p. 529 (compiled). _ horman, Wiscovery Rep., vol. 2, 1930, p. 277 (S. 41° 43'20" W. 42°20'40" 2000 meters; S. 53°25' W. 35°15', 1025 to 1075 meters). ? Bathylagus elangiatur Roule, Bull. Inst. Deéanogr. hunaco, ho. 320, 1919, p.8. (Capo Finisterre). Rés. Camp. Sci. humaco, vol. 52, 1919, p. 22, pl.1, fig. 2. (Same specimen.)

33510 U.S.N.M. N.39°44'30"W.71°04' Albatross Stateon 2094. v Length 155 mm. Type. Veptember 21, 1883. 35615 U.S.N.M. N.39°39'45"W.71°35'15". Length 91 to 88 mm. V 2 examples. albutross Htation 2201. 39480 U.S.N.M. N.40°29'W.66°4'. In 1767 fathour. Albatrozz Station 2572. Length 105 mm. 44579 U.S.N.M. N.38959' W.70°07'. In1544 fathomp. Albatross Station 2711. September 16, 1886. Length 138 mm.

Bathylagus pacificus Gilbert Bathylagus pacificus Gilbert, Prov. U. J. hat. mus., vol. 13, 1890, p. 55. abatron Atations 3071 and 3074, 685 to 877 fathoms, off Washington. - Goode and Bean, Oceanic Ochth., 1895, pp.53, 510 (reference). _ Jordan and Evermann, Bull. U. L. L. hat. hous., ho. 47, pt. 1, 1896, p. 530 (compiled). _ Gilbert, Prov. U. N. hat. hus., vol. 48, 1915, p. 312 (off southern California). _ horman, deseovery Rep., vol. 2, 1930, p. 277 (compiled). Bathylagus borealis Gilbert, Rep. U. S. Fish Comm., pt. 19, 1893 (1895), p. 402. albatross. Stations 3327 and 3325, 284 to 322 fatheris, north of Unalaska Island. — Jordan and Evermann, Bull. U. S. hat. mus., ho. 47, pt. 3, 1898, p. 2824.

Depth 6 to 63/4; head 37/8 to 4, width 21/8 to 21/5. Inout (in profile) 41/2 to 6/2 in head from snout tip; eye 23/4 to 21/8, greatly exceeds inoutor interorbital; maxillary reaches 1/8 to 1/5 in eye, length 4 to 4 1/4 in head from snout tip; interorbital, rather low, with deep median concave depression. Hill rakers 11+18, slender, flexible, 3 in eye, little greater-than gill filaments. Acales 38 to 40? (pockets) in lateral line Fo caudal base; 4 above, 4 below, 14? predorsal. Healen all fallen.

D. I, 8-or I, 4 damaged), fin height 2? to 21/2? in total head length; adipose fin 4/4, over hind anal rays; W.I, 16 (damaged), fin height 3 18! to 3 3/5-?; candal (damaged) small, with small though distinct rudimentary rays, at least 10 below; least depth of caudal peduncle 5?; pectoral (damaged) 2/4? to 23/4; ventrals 31/8 to 31/5? (damaged), inserted below bases of last donal rays. Brown to neutral blackwish, Dris dark neutral gray. Belly and

breast neutral black. Fins dusky 4868/ U.S.N.M. N.53°37'10" W.167°50'10". In 284 fathous. August 20, 1890. Albatross Station 3325. Length 150 mm. 53943 U.S.N.M. N. 55°20'W. 136°20'. Albatross Station 2859. Length 104 to 191 mm., poorly preserved. Von 1569 Gathout. 1 august 29, 1888. 76491 U.S.N.M. N.55°6'W.169°8'. august 5,1895. Albatross Station 3601. Length 134 mm., poorly preserved. 76492 U.S.N.M. N.54°54'W.168°59' Cugut 12,1895. Albatross Station 3604. Length 130? mm, candal broken off. albatrors Station 3627. Length 116 mm.? monderey Bay, Colifornia. June 2, 1904. Prinox Light House, S. 50°E., 5.
74716 U.S.N.M. "Bowers Bank", Bering Vea.

Some 3, 1906. June 3, 1906. Albatross Station 4767. Length 3/mm.

breast neutral black. Fins dusky To blackersh. Pacific Ocean. 53943 U.S.N.M. N. 55°20'W. 136°20'. Albatrons Station 2859. Length 104 to 191 mm., poorly preserved. Uni 569 fathout. 1 august 29, 1888. 76491 U.S.N.M. N.55°6'W, 169°8'. august 5, 1895. Albatross Station 3601. Length 134 mm., poorly preserved. 76492 U.S.N.M. N.54°54'W.168°59! august 12,1895. Albatross Station 3604. Length 130? mm., candal broken off. albatross Station 3627. Length 116 mm.?

Morderey Bay, Colifornia June 2, 1904.

Wellatross Station 45 44. Length 15 le mm. une 7 7475 U.S. N.M. Point Pinox Light House, S. 6° E., 4.6 miles Albatross & tation 4540. Length 168 mm.

Bathylagus evryops Toode and Bean Bathylagus ewryops Goode and Bean, Deanie Schth., 1895, p. 55, pl. 17, fig. 63. N.39°29' W.71°46', 693 fathours; N.39°52° W.70° 30',600 fathoms; N.40°9'30"W.67°9',135-6 fathans. Jordan and Evermann, Bull. U. Y. hat. mus., ho. 47, pt. 1, 1896, p. 529 (compiled). -! Holt and Byrne, dep. legrie. I reland Fisher. Scient. Investig., ho. 2, 1912, p. 24, fig: 10. (:off I reland, 400 to 900 fathous). - Korman, Discovery Rep., vol. 2, 1930, p. 277 (S.33°50'to34°13' F.16°4'to 15°49', 850 to 950 meters; S. 60° 48' 50" W. 51°00' 20", 1000 to 1100 meters; S. 38° 20'W. 22°18', 1800 to 2000 meters.

Bathylagus ewyops var. latifrons
Limberg, Wiss. Ergebon. Hehved. Hiidpolar.
Exped., vol. 5, ho. 6, 1905, p. 67. 5. 49°56'W.

49°56', 2700 meters.

Bathylagus atlanticus (not Lünther) Holt
and Byrne, dep. agric. Dreland Fisher.
Heient. Investig., ho. 2, 1905, p. 6, pl. 1.

figs. 3-4.

31861U.S.N.M. N.39°52' W.70°30'.

Fish Hawk Station 1155 haul. 1882. In 554 fathour.

Type. Kength 110? mm.

35420 U.S.N.M. N.39°29' W. 71°46'.

In 693 fathour.

Albatross Station 2181. July 23, 1884.

Length 140 mm.

39477 U.S.N.M. N.40°9'30" W.67°9'.

Du 1356 fathour.

Albatross Station 2571.

Length 88? nom. Type.

Bathylagus argyrogaster horman,
Bathylagus argyrogaster horman,
Diseovery Rep., vol. 2, 1930, p. 2/3; fig. 4

(outline). S. 18°37' E. 10°46', 73 meters; S. 15°

55' E. 10°35', 600 to 700 meters; S. 5°54' E. 11°19',

150 meters; S. 2°13' E. 1°52', 71 meters; S. 2°43'

30" W. 00°56' 30", 125 to 175 meters; S. 00°56' W.

14°8' 30", 250 meters.

Bathylagus migrigenys Parr, Bull. Bingham Decanogr. Collection, vol. 2, art. 4, Det. 1931, p.4, fig. 2. N. 20°48'15"W. 106°11'50", 540 Lathans, N. 16°14' W. 99°36'35", 655 fathans Depth 4 1/8; head 4. Inout to eye # 13 in head; eye 4, greater than Amout; orbit 3/3; mapillaby scarcely more than half way to eye; Imouth small almost entirely transverse; premazillary teeth minute, dentance with Lavily well developed teeth, irregular group at front end of vomer. Gillrabers 2. Acades 40 to 45? in lateral series. Willow 12, Lin height 2/5 in head; a dipore fin 12/3; le. 14 to 17, fin height a 45; candid length 17/8; least depth of candal Jenemals 3/8; pectoral 12/3, ray 10; ventral ray 8 to 10, fin 175

dorsal surface of head, upper half of towns and tail uniform dustay brown, lower surfaces pale. I maide mouth and gill cavity, also peritoneum, black. Length 82, 5 mm. without (Parr.) Pacific off mexico.

Bathylagus milleri Jordan and Evermann Bathylagus milleri (Jordan and Gilbert) Jordan and Evermann, Bull. U. S. hat. hus., ho. 47, pt. 3, 1898, p. 2825. Corter Banks off Van Wiego, California, Albatross Station 3627, 776 fathous. __ horman, Dissovery Rep., vol. 2, 1930, p. 274 (compiled).

Bathylaques longichs Farr Buthylagus Lagiceps Parr, Bull. Bingham Ceeanogr. Collection, vol. 2, art. 4, let, 1931, Ji.6; fig. 3. N. 22°50'20"W. 109°48'15", 525 Lathons, N. 24°7° W. 108° 40°, 286 Lathons. Depth 5 1/3; head 3. Honout 3.in head to eye; syc 6/2, 2/8 in snout; orbit 3 1/8; maxillary reaches eye, length 27/8 in head from mout tip; single row of very fine teeth in premaxillaries and dentaries, conspicuously longer in latter; 2? transverse series of 4 whente teeth across vomer and series of very minute teeth ow each palatine. length; adipore fin 3; a. 12, fin height 3'1/2; candal 2; least depth of candal pedemole 33/4; ventral 4, rays 8. Back dotted with very course black frigmentation, ventral surfaces pale. Inside mouth and gill openings, also peritmeum, black. Length 42 mm. I without candal. (Pari.) Off Cape Han Lucas.

Family Serpidae

Body elongate, subterete. Head mouth very small, terminal. I seth small, very small, terminal. Teeth small, ehiefly in lower faw and on vomer. Gill membranes separate. Branchiostegals reduced to 3 or 4. Dorsal fin short, posterior. Delipose fin present: Ventrals behind middle of body.

Parapriacanthus unwini (agilby) Tempheris unwini Gilby, hem. Australian mus. vol. 2, 1889, p.60. Lord Howe Island. Pempheris unwinie Agilby, of. cit., vol. 2, 1889, pl. 3, fig. 1. Parapriacanthus unwini I gilby, mem. Queensland mux, vol/2, December 10, 1913, p.67 (name). Depth 2 1/8; head 21/2. Vnout 4 4/5 in head from snout tip; eye 3, greater than snout; maxillary reaches 12 in eye, expansion 4/4 in eye, length 2/3 in head from smout tip, teeth unisercial, Knall, thank, in jows and on vomer and pulatines. Heales 67. W. V. 8. U. TII, 22. Brick red, houd rather darloer than body, Length 100 mm. (Agilby) ford Howe Island. Tospibly not different from Taraprincanthus funtheri.

Prendobranchiae well developed. Air vessel large. Inncous membrane of stomach with numerous large papillae. ho pyloric appendages. Body covered with large, then, silvery scales. Healer extend over central Candal rags. Dorsal fin skort, inserted behind ventrals, before anal. Udipose fin present in most young examples, frequently absent with age, small, narrow, end fringed or lacerated. Candal forbed. marine lishes of the deeper attantic and Pacific Oceans.

Subgenus Serpe Resso

Serpe microstoma Risso, Schth. hiee,
1810, p. 356. hice.

Inicrostoma microstoma Braner, Deutsch.
Tielsee Exped. Valdivia. Fol. 15 Fischer

Triefsee Exped. Valdivia, vol. 15, Fische, 1906, p.10, fig. 1 (enteron) (5.3°31'E, 7°25'6", 600 meters, Gulf of Guinea).

microstoma rotundata Risso, Hist. hat. Eur. mérid., vol. 3, 1826, p. 475, fig. 36. hice. _ Günther, Cat. Fisher Brit. hus., vol. 6, 1866, p. 204 (messina; mediterraneam).

microstoma argenteum Valenciennes, Hist. hat. Poists, vol. 18, 18, 1.358, pl. 544. hice, Vardinia, hossina.

Depth 8 2/3; head 3 3/4, width 2 1/3. Anout 41/10 to 5 in head from snout tip, eye 2 1/3 to 3, greatly exceeds short snout or interorbital. maxillary reaches about 45 to eye, largely concealed, length 5 in head from snout tip, interorbital 3 3/3, nearly level. Gill rabers 4 + 8?, short, slender, lanceolate, greatly less than gill filaments, which 3/3 Acales about 38 to 40 (portsets) in lateral line to candal base and

6 more out over middle of caudal basally; 4 above, 3 below, 18; predorsal to occiput. I cales all very caducous, mostly fallen except on caudal peduncle and caudal basally. Heales with 3 busal radiating strial, crossing converging circuli, einenh as 22 parallel close set strial forming 2 convergent groups, in each half of scale basally, not extending africally. D. I, T, second ray 1/5 in total head, origin midway between depressed fectoral tip and candal base or

very slightly behind ventral origin; anal begins behind dorsal or much nearer candal base Than tip of depressed pectoral tip, candal. 1 45? in head, evidently forbed; least depth of candal pedemole 3 1/8; pectoral 14/8; ventral 2. Brilliant silvery white generally. Dris silvery white. Fins pale or whitish, dorsal and candal scarcely darker.

40072 U.S.N.M. hessina. Florence museum. Length 37 to 93 mm. 2 examples.

92242 U.S.N.M. Messina. huilan huseum. Length 97 to 108 mm. 2 examples.

I example, U. F. h. h. h. hessina. Florence husseum. Length 65 mm. Serpe oblitum Facciola Microstoma oblitum Facciola, hat. Viciliana, vol. 6, ho. 9, 1887, p. 196. Lea of messina.

Depth 6 1/4 to 6 3/5; head 3 1/5 to 3 1/4, width 22/5- to 23/4. Inout 4/10 to 41/5 in head from snout tip; eye 3, greatly exceeds short snout or interorbital; maxillary reaches 3/4 to eye, largely Concealed, length 4 1/2 to 5-1/4 in head from snout tip; interorbital 4 to 4 1/4, nearly level. Gill rathers 6 + 12?, lanceolate; slender, little longer than gill filaments or 3 in eye. Scales 38? (poekets) to caudal base'-and 11 more on latter; 3 above,

3 below, 18? predorsal. Healer very caducous, most all fallen except on candal fedurche and candal busally. D. I, 8, second ray 12/3 to 1 /8 in total head, origin midway between lyl , and caudal base; M. I, 5, first branched ray 2 2/3 to 2 1/4, origin at last third between dorsal origin and Candal base; candal 11/3 to 1/3 in head, lobes pointed and fin forked: least depth of candal pediencle 2 1/8 to 3/4; pretoral 13/4?; ventral 21/5. Hilvery white generally. Dris

hedderranean.

40075 U.S.N.M. hessina. Florence
huseum. Length 50 to 58 mm. 2 examples.

92241 U.S.N.M. hessina. hilan
huseum. Length 42 to 54 mm. 3 examples.

Lespisolis (millingtmidal) Lenfe Reported with many

Enproterpe new subgenus Type-Herpe schmidte new species Body elongate, partly cylindrical. Head small. Eye tverly large. houth small, lower jaw protruding, maxillary short, wide, largely concealed. Lateral line raxial. Norsal inserted well before ventrals, origin much nearer knout than candal base. lidipose fin well developed, over anal. Diagnoses. Well distinguished by its abbounced dorsal, before thet ventrals. The large thin sealer very caduloux. Ev, well; Tpo, before; Herpe.)

Licrostoma sehmidte new species Depth 7 to 8; head 4 1/3 to 4 1/5, width 2 to 21/10. Unout (in profile) 5 to 6 110 in head from snout tip; eye 216 to 2 1/3, greatly exceeds snout or interorbital; maxillary reaches front eye edge to 15 in eye, length 4 1/5 to 4 1/5 in head from snout tip; interorbital 4 1/5 to 5, depressed concavely so eye impinges little on upper profile. Till rakers 8 + 18, slender, flexible, slightly less than gill filaments or 43/4 in ege.

Scaler 38 to 40 in lateral line to candal base and I more on latter; 3 above, 3 below, 17 or 18 predorsal. I cales all very caducous, only few remain about caudal base, all others fallen. D. II, 7, I or II, 8, I, first branched ray 12/5 to 1/2 in total head length; adipose fin 4 1/5 to 8; W. I, 6, I to II, 8, I, first branched ray 2 1/3 to 2 1/5; candal 1/13 to 13/5, well forked; least depth of candal peduncle 3 /3 to 3 3/5, pectoral 1/2 to 1 43;

378 ventral 14/5 to 17/8. Uniform fall brown. Head with silvery reflections on side, opercle underlaid with dark neutral gray. Dris neutral black, with iridescent tints.) noide mouth and gill opening black. I cales at caudal base and in lateral line on candal peduncle silvery. Fins all uniformly fale brown, median and basal part of Candal dusky. Bases of ventral also durky. Diagnosis. Largely in the account

of the subgenus.
Type 20.

U.S.N.M.

2565. D. 5444. Atalaya Point, Batag Deland, S. 65° E., 15. 1 miles (N.12° 043'5" E. 124° 59'50"), gast coast Ength 188 mmi. Sathans. June 3, 1909. 1935. D. 5445. Atalaya Point, Batag Island, S. 56° E., 5. 3 miles (N. 12° 44' 42" E. 124° 59' 50"), east coust of luzar. In 383 fathous. June 3, 1909. Kength 219 mm. Type. 2411 to 2417. D. 5589. mabul Island (NW.) N. 3° W., 2. 8 miles (N. 4°12'10" F. 118°38'8"), Libuko Bay, Borneo. In 260 Lathoms. Neptember 29, 1909. Length 152 to 188 mm. 8 examples.